

Date: Wed, 21 Sep 94 02:01:01 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V94 #1046
To: Info-Hams

Info-Hams Digest Wed, 21 Sep 94 Volume 94 : Issue 1046

Today's Topics:

DTMF with Sound Blaster Card
Got my ticket in record time!!!!!!!
Metal Hand held radios
STD: Weekly Solar Terrestrial Forecast & Review for 16 September
Tech Plus License in 6 weeks
Wanted, 2M crystal controller rigs, IC-22A

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Fri, 16 Sep 1994 12:40:23 GMT
From: psinntp!hk.super.net!news.ust.hk!dmc196.ust.hk!not-for-mail@uunet.uu.net
Subject: DTMF with Sound Blaster Card
To: info-hams@ucsd.edu

Dear All Hams,

Do you know any program in Internet can generate and detect DTMF
using Sound Blaster Card.

--

Lo Ho Fung Michael	E-mail address : ee_hflo@stu.ust.hk
Department of Electrical	International Radio Call Sign : VR2YJR
& Electronic Engineering	Stand by at repeater stations
The Hong Kong University	VS6KP (Tate's Cairn 577m) 145.650 Mhz (-)
of Science & Technology	VS6HKA (Mount Gough 400m) 145.750 Mhz (-)

| Major : Computer Engineering | VS6MA (Victora Peak 552m) 145.575 MHz (-) |

Date: 19 Sep 1994 21:31:21 -0400
From: ihnp4.ucsd.edu!library.ucla.edu!europa.eng.gtefsd.com!gatech!news-feed-1.peachnet.edu!news.duke.edu!eff!wariat.org!not-for-mail@network.ucsd.edu
Subject: Got my ticket in record time!!!!!!!!!!!!
To: info-hams@ucsd.edu

I took my Tech Plus test on August 7 and got my ticket today, September 19!!
That's six weeks exactly!!!!!! Can't wait to tear up the airwaves!

Happy as a cat,
Matt (matt@wariat.org)
KB8UWZ

P.S. Guess the rumors of the FCC being on vacation in the summer are false!

Date: 21 Sep 94 17:47:00 GMT
From: news-mail-gateway@ucsd.edu
Subject: Metal Hand held radios
To: info-hams@ucsd.edu

I hear a lot of talk about 'plastic case' HTs and noone makes metal HTs these days. Well, I bought a 20m HT, that is a great backup rig in METAL CASING (Aluminium). It offers 2W output, SSB or CW, in a case that is similar in size to the 202 from Radio Shack (the case is the heatsink).

It takes either 6 AA batteries or 7 AA NiCd's and covers two 50KHz ranges on the 20 meter band. Made by Mizuho in Japan and sold here (in Europe). It used to be sold by AEA in the US when the sunspots were high and maybe still be on sale by some retailers. It comes in 80, 40, 20, 15, 10 and 6 meter versions.

Now when you add the Ramsey 20m 20W power amp you have a great 20W backup rig that works wonders with normal batteries on HF. I bought it for about 200 UK pounds (too much money, but then the dealer in the UK (Waters & Stanton) wants huge margins from our hobby so I don't recommend you buy anything from them.

So there are metal HTs and there are HTs for HF and they work great. I don't recommend you get a whip antenna for 20m, but connect your battery HT to your beam and work wonders AND keep your electricity costs at minimum.

Peter KC1QF/ON9CGV
pve@dg13.cec.be

Date: Thu, 15 Sep 94 18:32:17 MDT
From: news.cerf.net!nntp-server.caltech.edu!netline-fddi.jpl.nasa.gov!
news.byu.edu!gatech!swrinde!howland.reston.ans.net!math.ohio-state.edu!
scipio.cyberstore.ca!vanbc.wimsey.com!@ihnp4.ucsd.edu
Subject: STD: Weekly Solar Terrestrial Forecast & Review for 16 September
To: info-hams@ucsd.edu

--- SOLAR TERRESTRIAL FORECAST AND REVIEW ---
September 16 to September 25, 1994

Report Released by Solar Terrestrial Dispatch
P.O. Box 357, Stirling, Alberta, Canada
T0K 2E0
Accessible BBS System: (403) 756-3008
SKYCOM Software Announcement: (403) 756-2386

** IMPORTANT SOFTWARE DISTRIBUTION ANNOUNCEMENT **

The Solar Terrestrial Dispatch is seeking individuals who are interested in helping us redistribute and market the line of software products we have developed. Specifically, we will shortly permit authorized individuals to RESELL and distribute the following:

- * BCAST Solar and Geophysical Database Management Software.
Contains all of the utilities necessary to use the Extended Database below. Also contains a large limited database of solar and geophysical data from 04 Sep 1991 to the 1993 with the ability to track solar and geophysical information to the present date. A powerful solar cycle analyst.
- * Extended Database of Solar and Geophysical Data.
Contains Sunspot numbers from 1818 to 1993, solar flux values from 1947 to 1993, and geomagnetic data from 1932 to 1993. Ideal for those studying solar cycles and related statistics on solar or geomagnetic storms.
- * Professional Dynamic Auroral Oval Simulation Software.
Determine when and where to look to see auroral activity. Simulates the position and appearance of auroral activity from any location on the Earth. Also simulates the appearance

and location of the Sun and Moon and comes with an extensive database of auroral activity sightings.

- * SKYCOM HF Ionospheric Signal Analyst Propagation Software.
A sophisticated and powerful high-frequency propagation program. Ideal for radio communicators or listeners, commercial broadcasters, educators, and anyone else interested in radio propagation. Produce broadcast coverage maps, global maps of maximum usable frequencies, maps showing the proximity of signal paths to the auroral zones, and MUCH more. Ray-trace signals between any two paths. Produce an all-band spectrum analysis showing what bands or frequencies to use at specific times of the day, what transmission elevation angles to use, modes of communication, magnitude of multipathing, and MUCH more than is possible to list here. SKYCOM outranks most other propagation programs in features, power, and flexibility.

Combined, this software normally sells for \$360.00.

Those who participate will be able to purchase ALL of the above software for only \$80.00 U.S. (a savings of over 77%), and resell it to others following our distribution plan. Participants could make very healthy profits.

There are no special personal requirements to become authorized. Anyone can participate. To find out how, send a request for more information to: Oler@Ultrix.Uleth.CA or to: COler@Solar.Stanford.Edu along with your postal mailing address. We will send the required information to you through postal mail.

SOLAR AND GEOPHYSICAL ACTIVITY FORECASTS AT A GLANCE

		10.7 cm	HF Propagation						+/- CON	Mag	Aurora			
		SolrFlx	LO	MI	HI	PO	SWF	%MUF	%	K Ap	LO	MI	HI	
		---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	
September	16	072		G	G	F	F	05	00	80	2 10	NV	NV	LO
	17	070		G	G	F	F	05	00	80	2 10	NV	NV	LO
	18	070		G	G	F	F	05	00	80	2 08	NV	NV	LO
	19	070		G	G	F	F	05	00	75	2 08	NV	NV	LO
	20	070		G	G	F	F	05	00	75	2 08	NV	NV	LO
	21	072		G	G	F	F	05	00	75	3 12	NV	NV	LO
	22	072		G	G	F	F	05	00	70	2 10	NV	NV	LO
	23	072		G	G	F	F	05	00	70	2 10	NV	NV	LO
	24	072		G	G	F	F	05	00	70	2 10	NV	NV	LO

25| 070 | G G F F 05 00 70|2 08|NV NV L0|

PEAK PLANETARY 10-DAY GEOMAGNETIC ACTIVITY OUTLOOK (16 SEP - 25 SEP)

EXTREMELY SEVERE												HIGH
VERY SEVERE STORM												HIGH
SEVERE STORM												MODERATE
MAJOR STORM												LOW - MOD.
MINOR STORM												LOW
VERY ACTIVE												NONE
ACTIVE						*						NONE
UNSETTLED	***	***	**	**	**	***	***	***	***	**		NONE
QUIET	***	***	***	***	***	***	***	***	***	***		NONE
VERY QUIET	***	***	***	***	***	***	***	***	***	***		NONE
<hr/>												
Geomagnetic Field	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun		Anomaly
Conditions	Given in 8-hour UT intervals											Intensity

CONFIDENCE LEVEL: 70%

NOTES:

Predicted geomagnetic activity is based heavily on recurrent phenomena. Transient energetic solar events cannot be predicted reliably over periods in excess of several days. Hence, there may be some deviations from the predictions due to the unpredictable transient solar component.

60-DAY GRAPHICAL ANALYSIS OF GEOMAGNETIC ACTIVITY

30											M
28											AM
27											AAM
26											AAM
24											AAM
22											AAM
21											AAM
20											AAM
18											AAMA
16											AAMA
15											UAAMAA
14											UAAMAA
12	U	U	U	AU	AAAAAA			U	U	UAAMAA	U
10	UU	U	U	UAU	AAAAAA			U	U	UAAMAA	U
9	UU	U	U	UAUU	AAAAAAU			U	U	UAAMAAUUU	
8	UU	U	U	UAUUUU	AAAAAAU			UU	U	U	UAAMAAUUU

```

6 |UUUUUUUUUUUUUUUUUU Q      AAAAAUUUUUUUUUUUUUUUUUU  UUQ  UUAAMAAUUUU|
4 |UUUUUUUUUUUUUUUUUUUUQQ QQ  QAAAAUUUUUUUUUUUUUUUUUU  QUQQ  UUAAMAAUUUU|
3 |UUUUUUUUUUUUUUUUUUUUQQQQQQQ  QAAAAUUUUUUUUUUUUUUUUUUQQQUQQQUUAAMAAUUUU|
2 |UUUUUUUUUUUUUUUUUUUUQQQQQQQQAAAAUUUUUUUUUUUUUUUUUUQQQUQQQUUAAMAAUUUU|
0 |UUUUUUUUUUUUUUUUUUUUQQQQQQQQAAAAUUUUUUUUUUUUUUUUUUQQQUQQQUUAAMAAUUUU|

```

Chart Start Date: Day #199

NOTES:

This graph is determined by plotting the greater of either the planetary A-index or the Boulder A-index. Graph lines are labelled according to the severity of the activity which occurred on each day. The left-hand column represents the associated A-Index for that day.

Q = Quiet, U = Unsettled, A = Active, M = Minor Storm,
J = Major Storm, and S = Severe Storm.

CUMULATIVE GRAPHICAL CHART OF THE 10.7 CM SOLAR RADIO FLUX

```

-----
101 |
100 |
099 |
098 |
097 |
096 |
095 |
094 |
093 |
092 |
091 |
090 |
089 |
088 |
087 |
086 |
085 |
084 |
083 |
082 |
081 |
080 |
079 |
078 |
077 |
076 |
075 |

```

```
074 | *****|*****|
073 | *****|*****|
072 | *****|** *|*****|
071 | *****|
070 | *****|
-----
```

Chart Start: Day #198

GRAPHICAL ANALYSIS OF THE 5-DAY AVERAGE SOLAR FLUX

```
096 |
095 |
094 |
093 |
092 |
091 |
090 |
089 |
088 |
087 |
086 |
085 |
084 |
083 |
082 |*
081 |***
080 |****
079 |*****
078 |*****
077 |*****
076 |*****
075 |*****
074 |*****
073 |*****
072 |*****
071 |*****
070 |*****
-----
```

Chart Start: Day #198

GRAPHICAL ANALYSIS OF THE 10-DAY AVERAGE SOLAR FLUX

```

091 |
090 |
089 |
088 |
087 |
086 |
085 |
084 | *
083 | **
082 | ****
081 | *****
080 | *****
079 | *****
078 | *****
077 | *****
076 | *****
075 | *****
074 | *****
073 | *****
072 | *****
071 | *****
070 | *****

```

Chart Start: Day #198

GRAPHICAL ANALYSIS OF THE 20-DAY AVERAGE SOLAR FLUX

```

084 |
083 | *****
082 | *****
081 | *****
080 | *****
079 | *****
078 | *****
077 | *****
076 | *****
075 | *****
074 | *****

```

Chart Start: Day #198

GRAPHICAL ANALYSIS OF 90-DAY AVERAGE SOLAR FLUX


```

081 | -----
080 | *****
079 | *****
078 | *****
077 | *****
    | -----

```

Chart Start: Day #198

NOTES:

The 10.7 cm solar radio flux is plotted from data reported by the Penticton Radio Observatory (formerly the ARO from Ottawa). High solar flux levels denote higher levels of activity and a greater number of sunspot groups on the Sun.

CUMULATIVE GRAPHICAL CHART OF SUNSPOT NUMBERS

```

106 | -----
101 |
096 |
091 |
086 |
081 |
076 |
071 |
066 |
061 |
056 |
051 |
046 |
041 |
036 |
031 |
026 |
021 |
016 |
011 |
006 |
    | -----

```

Chart Start: Day #200

NOTES:

The graphical chart of sunspot numbers is created from the daily sunspot number counts as reported by the SESC.

HF RADIO SIGNAL PROPAGATION PREDICTIONS (16 SEP - 25 SEP)

High Latitude Paths

CONFIDENCE LEVEL ----- 70%	EXTREMELY GOOD												
	VERY GOOD												
	GOOD												
	FAIR	***	***	***	***	***	***	***	***	***	***	***	***
	POOR												
	VERY POOR												
	EXTREMELY POOR												

PROPAGATION QUALITY		Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun		
		Given in 8 Local-Hour Intervals											

Middle Latitude Paths

CONFIDENCE LEVEL ----- 75%	EXTREMELY GOOD												
	VERY GOOD												
	GOOD	***	***	***	***	***	***	***	***	***	***	***	***
	FAIR												
	POOR												
	VERY POOR												
	EXTREMELY POOR												

PROPAGATION QUALITY		Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun		
		Given in 8 Local-Hour Intervals											

Low Latitude Paths

CONFIDENCE LEVEL ----- 85%	EXTREMELY GOOD												
	VERY GOOD												
	GOOD	***	***	***	***	***	***	***	***	***	***	***	***
	FAIR												
	POOR												
	VERY POOR												
	EXTREMELY POOR												

PROPAGATION QUALITY		Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun		
		Given in 8 Local-Hour Intervals											

NOTES:

NORTHERN HEMISPHERE

High latitudes >= 55 deg. N.

Middle latitudes >= 40 < 55 deg. N.

SOUTHERN HEMISPHERE

High latitudes >= 55 deg. S.

Middle latitudes >= 30 < 55 deg. S.

Low latitudes < 40 deg. N. | Low latitudes < 30 deg. S.

AURORAL ACTIVITY PREDICTIONS (16 SEP - 25 SEP)

High Latitude Locations

CONFIDENCE LEVEL ----- 70%	EXTREMELY HIGH											
	VERY HIGH											
	HIGH											
	MODERATE											
	LOW	***	***	***	***	***	***	***	***	***	***	***
	NOT VISIBLE	***	***	***	***	***	***	***	***	***	***	***
	-----	---	---	---	---	---	---	---	---	---	---	---
	AURORAL	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	
	INTENSITY	Eve.Twilight/Midnight/Morn.Twilight										

Middle Latitude Locations

CONFIDENCE LEVEL ----- 75%	EXTREMELY HIGH											
	VERY HIGH											
	HIGH											
	MODERATE											
	LOW											
	NOT VISIBLE	***	***	***	***	***	***	***	***	***	***	***
-----		--	--	--	--	--	--	--	--	--	--	
	AURORAL	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	
	INTENSITY	Eve.Twilight/Midnight/Morn.Twilight										

Low Latitude Locations

CONFIDENCE LEVEL ----- 95%	EXTREMELY HIGH											
	VERY HIGH											
	HIGH											
	MODERATE											
	LOW											
	NOT VISIBLE	***	***	***	***	***	***	***	***	***	***	***
-----		---	---	---	---	---	---	---	---	---	---	
	AURORAL	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	
	INTENSITY	Eve.Twilight/Midnight/Morn.Twilight										

NOTE:

Version 2.00c of our Professional Dynamic Auroral Oval Simulation Software Package is now available. This professional software is particularly valuable to radio communicators, aurora photographers,

educators, and astronomers. For more information regarding this software, contact: "Oler@Rho.Uleth.CA", or "COler@Solar.Stanford.Edu".

For more information regarding these charts, send a request for the document, "Understanding Solar Terrestrial Reports" to: "Oler@Rho.Uleth.Ca" or to: "COler@Solar.Stanford.Edu". This document, as well as others and related data/forecasts exist on the STD BBS at: (403) 756-3008.

**** End of Report ****

Date: Mon, 19 Sep 1994 20:47:22 GMT
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!news.cs.utah.edu!cs.utexas.edu!swrinde!
sgiblab!news.cs.indiana.edu!usenet.ucs.indiana.edu!onyx.indstate.edu!
pifer.indstate.edu!ccdave@network.ucsd.edu
Subject: Tech Plus License in 6 weeks
To: info-hams@ucsd.edu

Just for all those who are wondering how long it take to get you license from the FCC I got mine today 6 weeks plust 1 day from when I took the test. Aug 7, 1994 - Sep 19, 1994. Sounds as if the FCC got a faster typist. :)

David L. Pifer, N9YNF VOX: (812) 237-2923
Systems Programmer, Graphics Specialist FAX: (812) 237-4361
Computing Services & Facilities OFFICE: Rankin Hall R044
Indiana State University PMAIL: AMBER/CCDAVE
Terre Haute, IN 47809 Bitnet/INET: ccdave@amber.indstate.edu

Date: 20 Sep 94 19:22:19 +0800
From: dog.ee.lbl.gov!agate!howland.reston.ans.net!gatech!news.Gsu.EDU!news-feed-1.peachnet.edu!news.duke.edu!zombie.ncsc.mil!gmi!usenet.eel.ufl.edu!piaget.moe.ac.sg!raffles.@@ihnp4.ucsd.edu
Subject: Wanted, 2M crystal controller rigs, IC-22A
To: info-hams@ucsd.edu

Hi,

I am looking for anyone with anyone the following 2M radios to sell. The radios must be in working condition.

1. ICOM IC-215
2. YAESU FT-2F

3. YAESU FT-221
4. especially the IC-22A

I need these rigs fast so if you have one, e-mail me ASAP. Thanks.

73,
Daniel

End of Info-Hams Digest V94 #1046
